ABSTRACT OF THE DISCLOSURE

A system and method for securely transmitting, searching, and storing data. To ensure security on the client side of a communication network, the system and method double encrypt sensitive data and single encrypt non-sensitive data. The system and method also fuzzy searches for user information. Thus, it is possible to find the information for the user in a database knowing only a minimal amount of detail about that user. Privacy and security is provided without impeding performance or compromising any of the standard database search functionality. Capitalizing on the difference in privacy requirements between users, the number of keys required to access sensitive data is minimized by using a single key for each user (e.g., a patient) and two keys for other users (e.g., health care providers).

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